

Automotive PhotoMOS Relays

AQV high voltage series

Panasonic
INDUSTRY



PhotoMOS for passengers' safety

The car chassis has to be reliably galvanically isolated from the HV battery. Automotive PhotoMOS can be used as fast electronic switches in order to detect leakage currents in a isolation monitoring application.

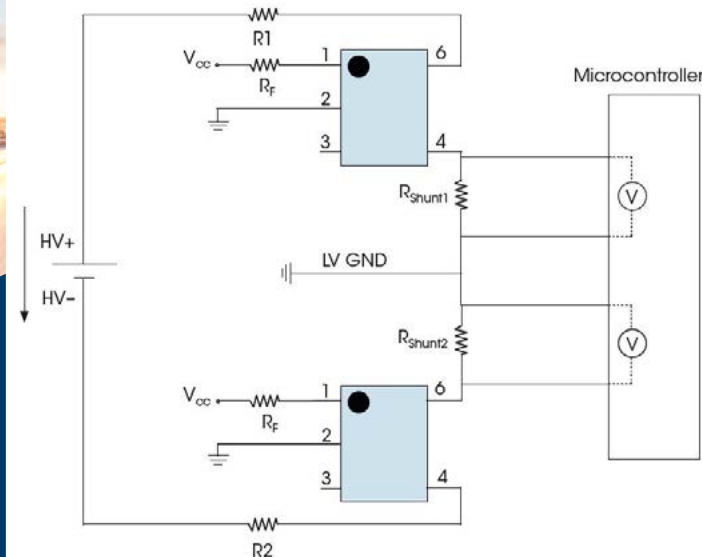
Key Features

- Available for high voltages up to 1500V
- Minimal leakage current (typ. <math><1\text{nA}</math>)
- Turn-on time: Max. 0.5ms . 1.0ms
- Turn-off time: Max. 0.5ms
- Tested according to AEC-Q101
- Input/output isolation up to 5kVrms
- No threshold voltage
- Stable on-resistance over entire lifetime
- Highly shock and vibration resistant



Automotive

- Isolation Monitoring
- Battery Monitoring
- Signal Processing



Isolation Monitoring

- **PhotoMOS®** is used to check the isolation between High Voltage (HV) and Low Voltage (LV) in HV or EV. In connection with some highohmic resistors (shunts), the secure separation of the high-voltage and low-voltage sides of the electrical system is checked.



For further information, please contact avnet-abacus.eu/ask-an-expert